To further help you understand how to **Figures**, **Equations**, and **Tables**, refer to the information in this document. Each type of item should be numbered sequentially within the type, i.e., the first of each type will be numbered "1", the second will be numbered "2", but you would not label a figure as Figure 1, and then the first table as Table 2 just because it came after Figure 1.

FIGURES include images, illustrations, chemical structures, graphs, pictures, etc.

Please label and annotate *underneath* the placement and entitle **"Figure #."** as shown below. Each figure should have at least *one* sentence pointing out the significance of what is shown. If the figure has two or more distinct portions, they should be labeled as (A), (B), etc. in the figure and the caption should have the corresponding statements similarly labeled. If the illustration, structure, etc. is not your original work, include a reference at the end of the figure caption. All graphs should have the axes labeled clearly, with units, when applicable. The independent variable will be the x-axis and the dependent variable (the thing measured in the experiment) will be the y-axis.

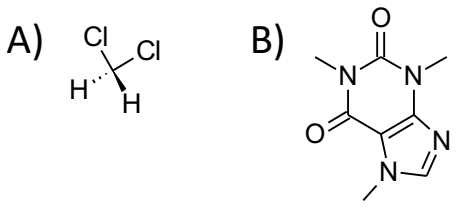

Figure 1. (A) Dichloromethane and (B) caffeine, illustrating the comparative bonding sites for the compounds of similar polarity. [5]

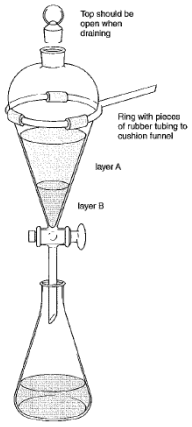

Figure 2. Apparatus for separating immiscible binary liquids mixtures of different densities. A separatory funnel with stopcock and glass stopper sits atop an Erlenmeyer flask that captures the *denser* solvents first, in this case, DCM solution in layer B.[6]

EQUATIONS should have the equation written centered like shown below, with a number identifying the equation by its order that it appears in your report. The number should appear on the next line, *right justified* and in parentheses so that you can refer to this equation later in the report by its number (if you need to refer to it again).

$$R_f = \frac{distance\ traveled\ by\ substance}{distance\ traveled\ by\ solvent\ front} \tag{1}$$

TABLES should have two thick lines encapsulating the table and its title. It must be labeled **"Table #."** followed by a brief description of its purpose. The labels of the rows and columns will vary with the data presented.

Table 1. Heating gradients used for three separate chromatography trials.

Time	Temperature Gradient		
	Trial 1	Trial 2	Trial 3
Minute 0-1	40°C	40°C	40°C
Minutes 1-6	Ramp to 70°C @ 6°C /minute	Ramp to 80°C @ 8°C /minute	Ramp to 90°C @ 10°C /minute